

RENESAS TOOL NEWS on October 16, 2006: 061016/tn2

A Note on Using the Real-Time OSes --M3T-MR308/4 and M3T-MR30/4-- for the M16C MCU Family

Please take note of the following problem in using the real-time OSes-- M3T-MR308/4 and M3T-MR30/4--for the M16C MCU family:

- On using objects that have a property of TA_TPRI
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1. Products and Versions Concerned

- The M3T-MR308/4 V.4.00 Release 00 through M3T-MR308/4 V.4.00 Release 02 (for the M32C/80 and M16C/80 MCU series)
- The M3T-MR30/4 V.4.00 Release 00 (for the M16C/60, M16C/30, M16C/20, M16C/10, and M16C/Tiny MCU series)

2. Description

When a task issues a service call the target of which is an object having a property of TA_TPRI, the task may not join a queue in the correct order of priority.

3. Conditions

This problem may occur if the following conditions are all satisfied:

- (1) A task issues a service call the target of which is an object having a property of TA_TPRI and which brings the task itself to the waiting state.
- (2) One or more tasks are already joining the queue the task in (1) joins.
- (3) Among the numbers indicating the priorities of the tasks described in (1) and (2), at least one is equal to or greater than 128.

4. **Workaround**

Set all the numbers indicating the priorities of the tasks concerned to 127 or less.

5. **Schedule of Fixing the Problem**

We plan to fix this problem in the next release of the products.

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